

INITIAL INSTALLATION USE 72" LONG POSTS

TRAFFIC

BARRIER LENGTH OF NEED

AASHTO ROADSIDE DESIGN GUIDE CLEAR ZONE.

1. CRASH CUSHION REQUIRED WHEN BARRIER END IS WITHIN 1.2 TIMES

TYPICAL INSTALLATION

CONSTRUCTED WITH PORTLAND CEMENT CONCRETE PAVEMENT. USE BOTTOM HOLE OF POST TO SET RAIL HEIGHT WHEN PAVEMENT SURFACE, TRAVEL LANES, ARE CONSTRUCTED WITH HOT MIX ASPHALT (HMA).

USE A 2" \times 6" REDWOOD PLANK, ATTACHED WITH 60 D GALVANIZED NAILS, AS AN ALTERNATE TO

USE A 3/8" x 2 1/2" ZINK COATED SELF TREADING HEX HEAD BOLT WITH A 3/8 X 2" ZINC COATED FENDER WASHER TO ATTACH PLANK TO STEEL POST. PRE DRILL PLANK AND POST

PLACE BOTTOM OF PLANK 1/2" BELOW FINISH GRADE. POSITION BUTT JOINTS

EDGE OF PAVEMENT

ANCHOR TYPE 1

SEE NOTE 1

SEE STD DWG BA 4D

TRAFFIC

XHAZARD

W-BEAM GUARDRAIL

6'3" SPACING TYP

 NOTES:

EFFECTIVE SHOULDER THE 2' MIN OFFSET IS OPTIONAL. (PLACE AS FAR OFF PAVEMENT EDGE AS PRACTICAL)

USE A 2" \times 6" REDWOOD PLANK, ATTACHED WITH 60 D GALVANIZED NAILS, L84 AS AN ALTERNATE TO SEE NOTE 3-ASPHALT CONCRETE CURB IF REQUIRED. SHOULDER VARIES

MIN

SEE NOTE 1-

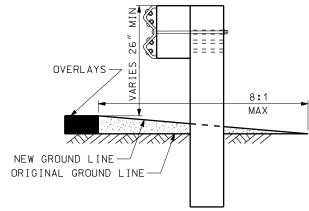
USE A 3/8" x 2 1/2" ZINK COATED SELF TREADING HEX HEAD BOLT WITH A 3/8 X 2" ZINC COATED FENDER WASHER TO ATTACH PLANK TO STEEL POST. PRE DRILL PLANK AND POST WITH A 3/16" HOLE.

PLACE BOTTOM OF PLANK 1/2" BELOW FINISH GRADE. POSITION BUTT JOINTS AT CENTER OF POSTS.

INITIAL LONG POST INSTALLATION

USE 84" LONG POSTS

FDGE OF PAVEMENT



BY DESIGN

1. USE THIS INSTALLATION WHEN THE MINIMUM 2' OF 4:1

2. USE TOP HOLE OF POST TO SET RAIL HEIGHT WHEN

BOTTOM HOLE OF POST TO SET RAIL HEIGHT WHEN

3. WHEN ROADWAY DESIGN REQUIRES 12' OR WIDER

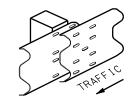
WITH HOT MIX ASPHALT (HMA).

OR FLATTER SLOPE CANNOT BE PROVIDED BEHIND RAIL.

PAVEMENT SURFACE, TRAVEL LANES, ARE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE PAVEMENT. USE

PAVEMENT SURFACE, TRAVEL LANES, ARE CONSTRUCTED

- 1. RAISE RAIL ELEMENT WHEN OVERLAY IS REQUIRED.
- 2. RAISED RAIL ELEMENT WILL ACCOMMODATE 6" TO 8" OF OVERLAY MATERIAL.
- 3. SLOPE OF SHOULDER INTO FACE OF RAIL NOT TO EXCEED 8:1.
- 4. RAISE REDWOOD PLANKING WHEN REQUIRED.
- 5. RAISING THE RAIL ELEMENT TO MAXIMUM HEIGHT REQUIRED BEFORE THE MINIMUM HEIGHT OF THE RAIL ELEMENT ABOVE GROUND LEVEL CAN BE REDUCED TO THE MINIMUM OF 26".



SPLICE LAP DETAIL

RAIL ELEMENT RAISED

EDGE OF PAVEMENT

CRASH CUSHION

SEE NOTE 1

NOTE:

SUPPLEMENTAL DRAWING

TRANSPORTATION
BRIDGE CONSTRUCTION UTAH TANDARD GUARDRAIL INSTALLATIONS BEAM

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STD DWG BA 4E1